HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD
Room 1504, Building A, Rising Times
Puyang, Henan, China
Email: info@dongyuchemical.com • www.dongyuchemical.com

SAFETY DATA SHEET (SDS)

Drilling Fluid Coating Agent – DYBBJ

SDS No.: DY-DYBBJ • Version: 3.5 • Revision date: 2025-09-18

Contents

SECTION 1. Identification of the substance and of the company/undertaking

Product identifier	Drilling Fluid Coating Agent – DYBBJ
Synonyms	Acrylamide–sodium acrylate copolymer
Recommended use	Encapsulating/shale-stabilizing polymer for water-based drilling fluids (WBM)
Restrictions on use	Not for food, drug or household applications
Supplier	HENAN DONGYU CHEMICAL TECHNOLOGY CO., LTD
Address	Room 1504, Building A, Rising Times, Puyang, Henan, China
Email	info@dongyuchemical.com
Website	https://www.dongyuchemical.com

SECTION 2. Hazards identification

- Classification (GHS/CLP): Not classified as hazardous. No signal word or pictograms required.
- Other hazards: May form combustible dust clouds when finely divided; hygroscopic; slippery when wet.
- Supplemental statements: Avoid breathing dust. Maintain good industrial hygiene and housekeeping.

SECTION 3. Composition / information on ingredients

Component	CAS No.	EC No.	Content (%)	Note
Polyacrylamide	9003-05-8	—	5	Polymer
Acrylic acid polymer (generic)	25035-69-2	—	80	Polymer
Water	7732-18-5	231-791-2	15	—

Note: Residual monomers (e.g., acrylamide) may be present at ppm levels depending on supplier specifications (COA).

SECTION 4. First aid measures

General	If medical advice is needed, have product container or label at hand. If symptoms persist, seek medical attention.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical advice if irritation persists.
Skin contact	Wash with plenty of soap and water. If skin irritation occurs, get medical advice. Launder contaminated clothing before reuse.
Inhalation	Move person to fresh air and keep comfortable for breathing. If symptoms occur (coughing, irritation), obtain medical attention.
Ingestion	Rinse mouth. Do NOT induce vomiting. Give water to drink if conscious. Get medical advice if large quantities have been ingested.
Most important symptoms	Mechanical irritation of eyes/airways from dust; nuisance dust effects.
Notes for physician	Treat symptomatically. Product becomes slippery when wet.

SECTION 5. Firefighting measures

Suitable extinguishing media	Water spray, foam, dry chemical or CO_2.
Specific hazards	Combustible dust hazard when dispersed; thermal decomposition may produce CO/CO_2 and traces of nitrogen oxides.
Advice for firefighters	Wear self-contained breathing apparatus and full protective gear. Beware of slippery residues after

	water application.

SECTION 6. Accidental release measures

Personal precautions	Avoid breathing dust. Provide adequate ventilation. Remove ignition sources. Wear protective equipment.
Environmental precautions	Prevent large quantities from entering drains/waterways.
Methods for cleanup	Vacuum or carefully sweep up. Avoid dry sweeping that creates dust clouds. For residues, wet-clean (surface will be slippery). Collect for recycling or disposal.

SECTION 7. Handling and storage

Handling	Minimize airborne dust. Use local exhaust in dusty areas. Ground/bond equipment to avoid static. Maintain good housekeeping.
Storage	Keep containers tightly closed in a cool, dry, well-ventilated area. Protect from moisture. Keep away from heat and strong oxidizers.
Specific end uses	Industrial use as drilling fluid additive.

SECTION 8. Exposure controls / personal protection

Control parameters	No product-specific OEL established. As guidance: total dust <10 mg/m³; respirable dust <3 mg/m³.
Engineering controls	Provide local exhaust ventilation where dust is generated. Enclose transfer points when feasible.
Personal protection – Eye/face	Safety glasses with side shields. Goggles if dust is present.
Personal protection – Skin	Wear gloves suitable for chemicals (e.g., nitrile). Wear protective clothing as needed.
Personal protection – Respiratory	Particulate respirator (e.g., N95/FFP2) when dust cannot be adequately controlled.
Hygiene measures	Wash hands after handling. Do not eat, drink or smoke when using this product.

SECTION 9. Physical and chemical properties

Property	Value
Appearance	White to light-yellow powder or emulsion (grade-dependent)
Odor	Odorless to slight
Odor threshold	Not determined
pH (1% solution)	7–9 (typical)
Melting point/freezing point	Not applicable (polymer)
Initial boiling point and range	Not applicable
Flash point	Not applicable (solid). For emulsions: not determined / typically not flammable
Evaporation rate	Not applicable
Flammability (solid)	Not classified; combustible dust hazard when dispersed
Upper/lower flammability or explosive limits	Not determined (dust hazard depends on particle size and dispersion)
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	Not determined
Bulk density	0.4–0.9 g/cm³ (typical, powder)
Solubility	Soluble in water; forms viscous solution/gel
Partition coefficient n- octanol/water (log Kow)	Not applicable (polymer)
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined; thermal decomposition at elevated temperature
Viscosity	Grade-dependent; see product COA
VOC content	0 g/L (polymer/water system)

SECTION 10. Stability and reactivity

Reactivity	Non-reactive under normal conditions.
Chemical stability	Stable under recommended storage/handling conditions.

Possibility of hazardous reactions	No dangerous polymerization expected.
Conditions to avoid	Dust generation, moisture, heat, open flames and ignition sources.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides (CO/CO_2); nitrogen oxides at high temperature.

SECTION 11. Toxicological information

Likely routes of exposure	Inhalation of dust; eye and skin contact.
Acute toxicity	Not expected to be acutely toxic (based on components).
Skin corrosion/irritation	Not classified; prolonged contact may cause dryness/irritation.
Serious eye damage/irritation	Not classified; dust may cause mechanical irritation.
Respiratory or skin sensitisation	Not expected to be sensitising.
Germ cell mutagenicity / Carcinogenicity / Reproductive toxicity	Not expected based on available information for polymers; residual monomers controlled at low levels.
STOT – single/repeated exposure	Not classified; excessive dust may cause transient respiratory irritation.
Aspiration hazard	Not applicable.

SECTION 12. Ecological information

Toxicity	Not expected to be acutely toxic to aquatic organisms (not classified).
Persistence and degradability	Water-soluble high-molecular polymer; expected to be inherently biodegradable over time.
Bioaccumulative potential	Not expected to bioaccumulate due to high molecular weight.
Mobility in soil	Mobile in water; forms viscous solutions/gel.
Other adverse effects	No known significant effects. Avoid uncontrolled releases.

SECTION 13. Disposal considerations

Product/solution	Dispose of in accordance with local/regional regulations. Do not discharge to drains.
Contaminated packaging	Empty containers may contain residue; rinse and recycle where possible or dispose of as non-hazardous waste.

SECTION 14. Transport information

Mode	UN/ID	Proper shipping name	Class/P.G.	Environmental hazards	Remarks
ADR/RID	—	Not regulated	—	No	Non-hazardous goods
IMDG	—	Not regulated	—	No	Not a marine pollutant
IATA	—	Not regulated	—	No	—

SECTION 15. Regulatory information

Chemical inventories	US TSCA: polymer exempt/listed; EU REACH: polymer (no registration for polymer itself); Canada DSL: listed; China IECSC: existing.
Safety, health and environmental regulations/legislation specific for the substance	No additional specific national regulations known for mixture in supplied form.
Chemical Safety Assessment	Not required for this mixture.

SECTION 16. Other information

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Abbreviations: WBM=Water-Based Mud; OEL=Occupational Exposure Limit; STOT=Specific Target Organ Toxicity; VOC=Volatile Organic Compounds.

Disclaimer: The information is believed to be accurate as of the issue date, but not exhaustive. Users are responsible for ensuring suitability for their specific operations and compliance with applicable laws and regulations.